NOAA SHIP THOMAS JEFFERSON
S-222
IMO8892033
THOMAS JEFFERSON

GENERAL NOTES

1. SEE REF 1 FOR STRUCTURAL DETAILS AND ADDITIONAL NOTES.
2. NAVIGATION LIGHT SHIELDS ARE TO BE PAINTED FLAT BLACK.
3. ALL SNIPES TO BE 1" X 45° UNLESS NOTED OTHERWISE.
4. THIS PLAN MUST BE READ CONCURRENTLY WITH REFERENCE 1.
5. ALL WELDING TO BE CONTINUOUS.
6. ALL PIPES TO BE CAPPED AND SEAL WELDED.

PARTS LIST

ITEM NO	QTY	SIZE	DESCRIPTION	MATERIAL	SPEC NO.	PART NO.	REMARKS	UNIT WT LBS
1	–	–	35 FT WHIP (GLASSMASTER)	–	–	–	–	–
2	–	–	SHIP'S SECONDARY GPS 492X (NORTHSTAR)	–	–	–	–	–
3	–	–	PRIMARY CELL PHONE, ANALOG 800 MHZ (SHAKESPEARE 5410–XT)	–	–	–	–	–
4	–	–	NX500 NAVTEX ANTENNA (FURUNO)	–	–	–	–	–
5	–	–	SATELLITE PHONE (IRIDIUM)	–	–	–	–	–
6	–	–	AIS, GSC–001 GPS (FURUNO)	–	–	–	–	–
7	–	–	TRUE TIME RECEIVE ANTENNA	–	–	–	–	–
8	–	–	8 FT VHF WHIP AIS (SHAKESPEARE 5225 XT)	–	–	–	–	–
9	–	–	CELL PHONE, DIGITAL, VERIZON, 800 MHZ (SHAKESPEARE)	–	–	–	–	–
10	–	–	DUAL BAND CELLULAR (INTERNET ONLY), GALAXY 5318 (SHAKESPEARE)	–	–	–	–	–
△1 11	1	EA	VSAT ANTENNA	–	–	WAVECALL 6006	SEATEL, REF. 11	–
12	–	–	INMART SAT C TRIMBLE (GALAXY)	–	–	–	–	–
13	–	–	35 FT WHIP (SHAKESPEARE STYLE 222)	–	–	–	–	–
14	–	–	PRIMARY SHIP GPS GP90 (FURUNO)	–	–	–	–	–
15	–	–	TUNER (GMOSS)	–	–	–	–	–
△1 16	1	EA	S–BAND 30KW ARPA RADAR W/ TURNING UNIT ASSY	–	–	65612A–14 65830MER–S	SPERRY MARINE, REF. 4	320
17	–	–	TUNER (HARRIS)	–	–	–	–	–
18	–	–	SHAKESPEARE 5225 XT (VHF SURVEY RX)	–	–	–	–	–
△1 19	1	EA	X–BAND 25KW ARPA RADAR W/ TURNING UNIT ASSY	–	–	65606/A–7 65825WAR–6	SPERRY MARINE, REF. 4	130
△1 16–P	6	SQ FT	PLATE, 1"	STEEL	DH–36			40.8#
8–P	4	SQ FT	PLATE, 1/2"	STEEL	A–36			20.4#
6–P	5	SQ FT	PLATE, 3/8"	STEEL	A–36			15.3#
5–P	0.5	SQ FT	PLATE, 5/16"	STEEL	A–36			12.75#
20	1	LIN FT	FLAT BAR, 2" x 1/4"	STEEL	A–36			1.70#
21	45	LIN FT	SQUARE BAR 3/4"	STEEL	A–36			1.91#
22	21	LIN FT	PIPE, 4" SCH 40	STEEL	A 53 GR'B'			10.79#
23	16	LIN FT	PIPE, 8" SCH 40	STEEL	A 53 GR'B'			28.55#
8–F	6	SQ FT	FLG PL 9" x 3" x 5/16"	STEEL	A–36			12.75#
24	2	SQ FT	GASKET 1/8" THICK	NEOPRENE	COML			
25	4	EA	CAP SCR, HEX HD,	CRES	ASTM–A276–316		1/2–13 UNC–2A, 1 3/4" LONG	0.13#
△4 26	4	EA	NUT, SLFLKG, 1/2–13 UNC–2B	CRES	ASTM–A276–316			0.04#
27	4	EA	WASHER, FLAT	CRES	ASTM–A276–316		FOR ITEM NO. 25	0.01#
28	4	EA	CAP SCREW HEX HD, 3/4"	CRES	ASTM–A276–316		13 UNC – 2A, 1 3/4" LONG	
29	4	EA	NUT, SELF LOCKING, 3/4"	CRES	ASTM–A276–316		13 UNC – 2B	
△4 30	4	EA	WASHER, FLAT 3/4"	CRES	ASTM–A276–316			
4–CP	4	SF	PLATE, CHECKERD 1/4"	STL	A–36			10.2
31	2	–	POS/MV	STL			GFE	10.2
32	2	–	GPS RECEIVE ANTENNA (SURVEY)	STL			GFE	10.2
33	1	–	SATELLITE TV RECEIVE	STL			GFE	10.2
34	1	–	VHF BUSINESS BAND ANTENNA	STL			GFE	10.2
35	2	–	MARINE VHF TRANSCEIVE	STL			GFE	10.2
36	2	–	CHANNEL 70 MARINE VHF RX	STL			GFE	10.2
37	1	–	VHF/UHF/FM TV ANTENNA	STL			GFE	10.2
								10.2

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
–	ALL	ALL	–	STARTING FROM REFS 1 & 10, ADDED DETAILS FOR NEW ANTENNA FOUNDATIONS TO SUIT NEW ANTENNA ARRANGEMENT.	12–1–04	WRP
A	1	4–F	1	CHANGED MATERIAL LIST TO REFLECT MIDIFICATIONS ACCOMPLISHED UNDER ITEMS 301 AND 302 OF NOAA SPECIFICATIONS EA133M–08–CN–0044	5–1–08	RWF
	2	10–C 12–C 15–E	2	REVISED BODY OF DRAWING TO SHOW INSTALLATION OF X–BAND RADAR AND S–BAND RADAR FOR ITEM 301		
	5	35–E 38–D				
	6	43–D				
	7	53–A 55–A				
	2	10–B 12–B	3	REVISED BODY OF DWG TO SHOW INSTALLATION OF VSAT ANTENNA FOR ITEM 302 AND RELOCATION OF SHIP'S WHISTLE.		
	5	33–D 37–C				
	6	42–A 42–D				
	1	1–C	4	CHANGED REFERENCE 4 DWG NO AND ADDED REFERENCE 11.		

REFERENCES

NO	TITLE	DRAWING NO
1	MAIN MAST ARRANGEMENT & DETAILS	TJ–171–002
2	ENTERTAINMENT SYS DIAG	434–6634709
3	RADIO COMMUNICATION ELEM WRG DIAG	441–6634710
4	RADAR SYS ELEM WRG DIAG	TJ–451–010
5	ELECTRONIC NAV SYS ELEM WRG DIAG	423–6634720
6	STRUCTURAL MOD ASSY NO 16	101–6634875
7	WINDSPEED DIR SYS ELEM WRG DIAG	494–6634693
8	STRL STDS	101–6634906
9	PAINT SCHEDULE	613–6634619
10	ANTENNA ARRANGEMENT (OBSOLETE)	405–6634712
11	VSAT ELEM WRG DIAG	TJ–441–003
12		
13		

INDEX

6	–
5	–
4	–
3	–
2	–
1	TITLE SHEET

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OFFICE OF MARINE & AVIATION OPERATIONS

Seaworthy Systems, Inc.
P.O. BOX 965
ESSEX, CT 06426
TEL: (860) 767–9061

CONTRACT #
50ABNA000032
TAR–SSI–047(04)

DSGN 12–1–04 WRP
DWN 12–1–04 LAG
CHK 12–3–04 JAH
CHK –/–/– –

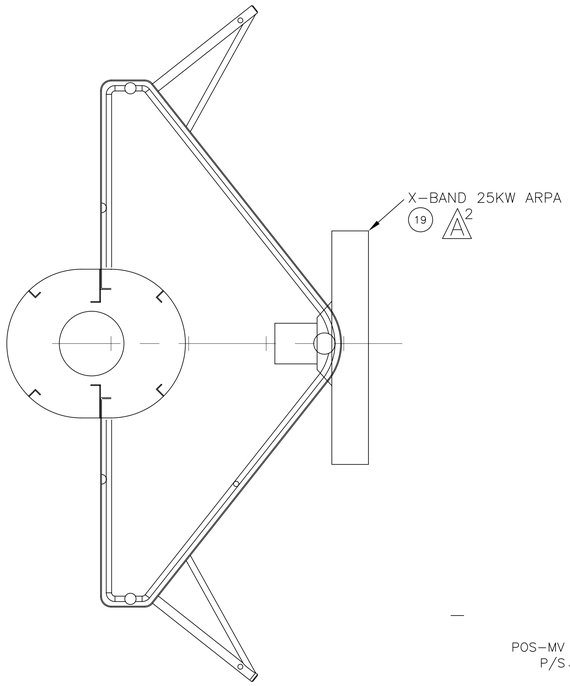
– NOAA APPROVAL

NOAA SHIP THOMAS JEFFERSON

ANTENNA ARRANGMENT

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ–171–003	A

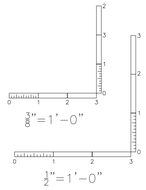
SCALE: AS SHOWN
CAD FILENAME TJ171003.dwg SHT 1 OF 7

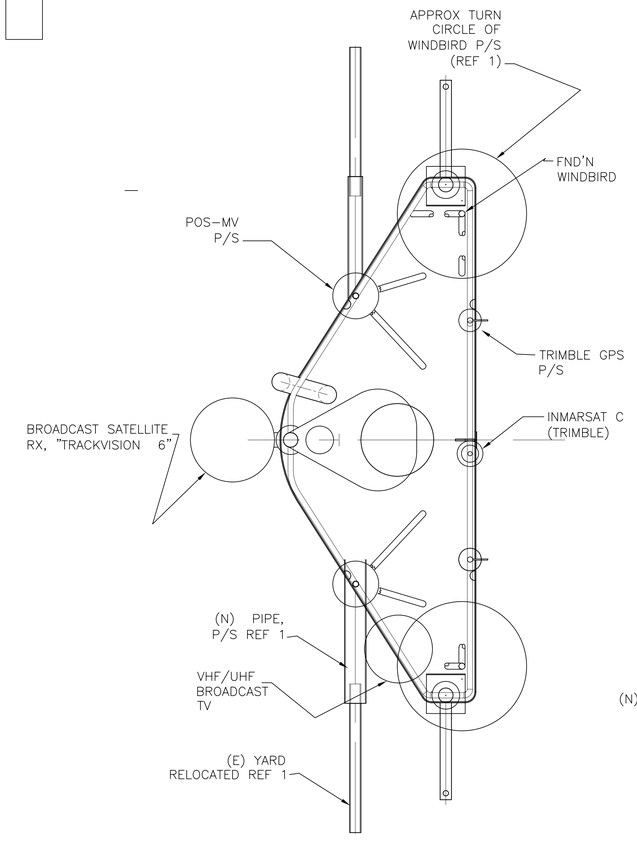


PLAN 16-C

TOP VIEW LOWER PLTFM

1/2" = 1'–0"



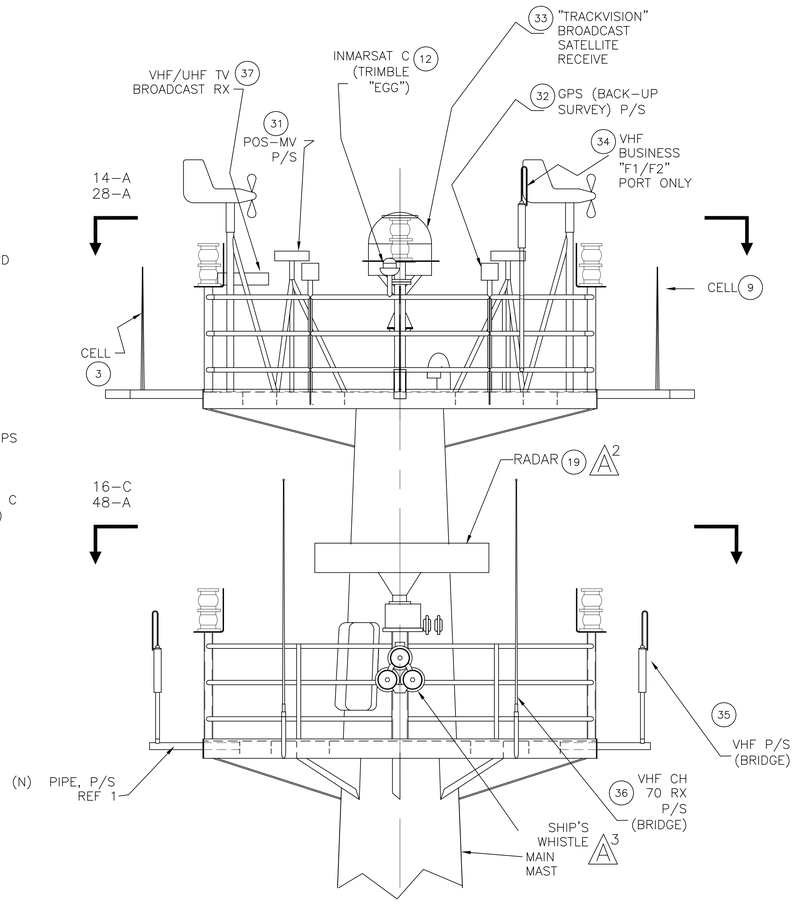

APPROX TURN CIRCLE OF WINDBIRD P/S (REF 1)
FND'N WINDBIRD
POS–MV P/S
TRIMBLE GPS P/S
BROADCAST SATELLITE RX, "TRACKVISION 6"
INMARSAT C (TRIMBLE)
(N) PIPE, P/S REF 1
VHF/UHF BROADCAST TV
(E) YARD RELOCATED REF 1

PLAN 14-A

TOP VIEW UPPER PLTFM

1/2" = 1'–0"

SEE 28–A FOR LOCATION DETAILS

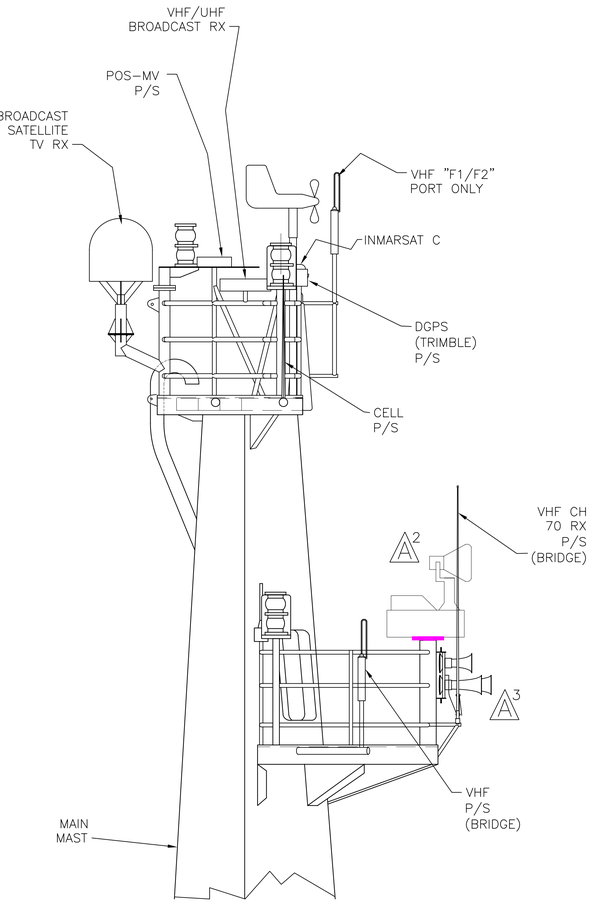


SECTION 12-A

FWD ARRANGEMENT, LKG AFT

3/8" = 1'–0"

SEE 19–A FOR LOCATION DETAILS



ELEVATION 10-A

OUTBD PROFILE STBD, LKG PORT

3/8" = 1'–0"

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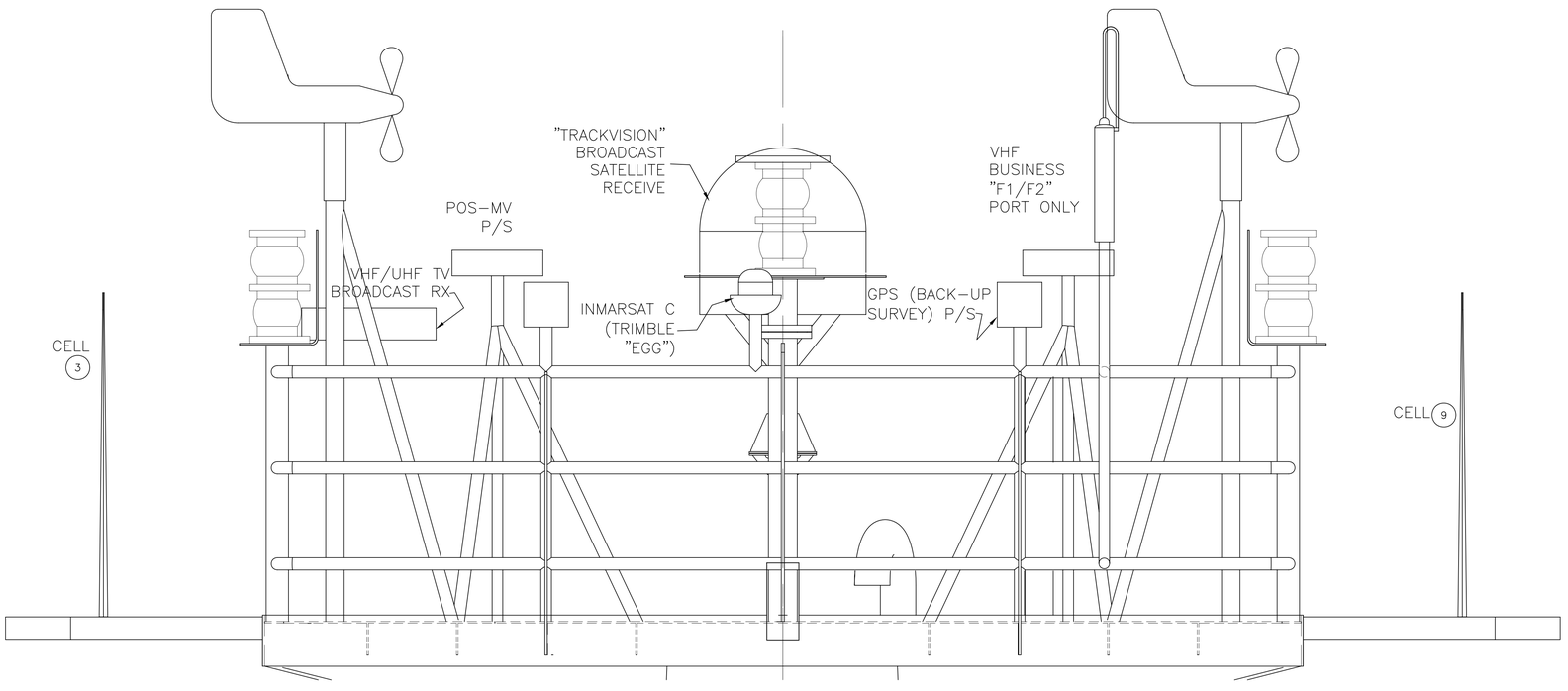
Seaworthy Systems, Inc.
ESSEX, CT 06426
TEL: (860) 767–9061

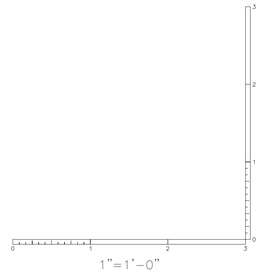
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ–171–003	A
SCALE: AS SHOWN	CAD FILENAME TJ–171–003	SHT 2 OF 7	



SECTION 19-A

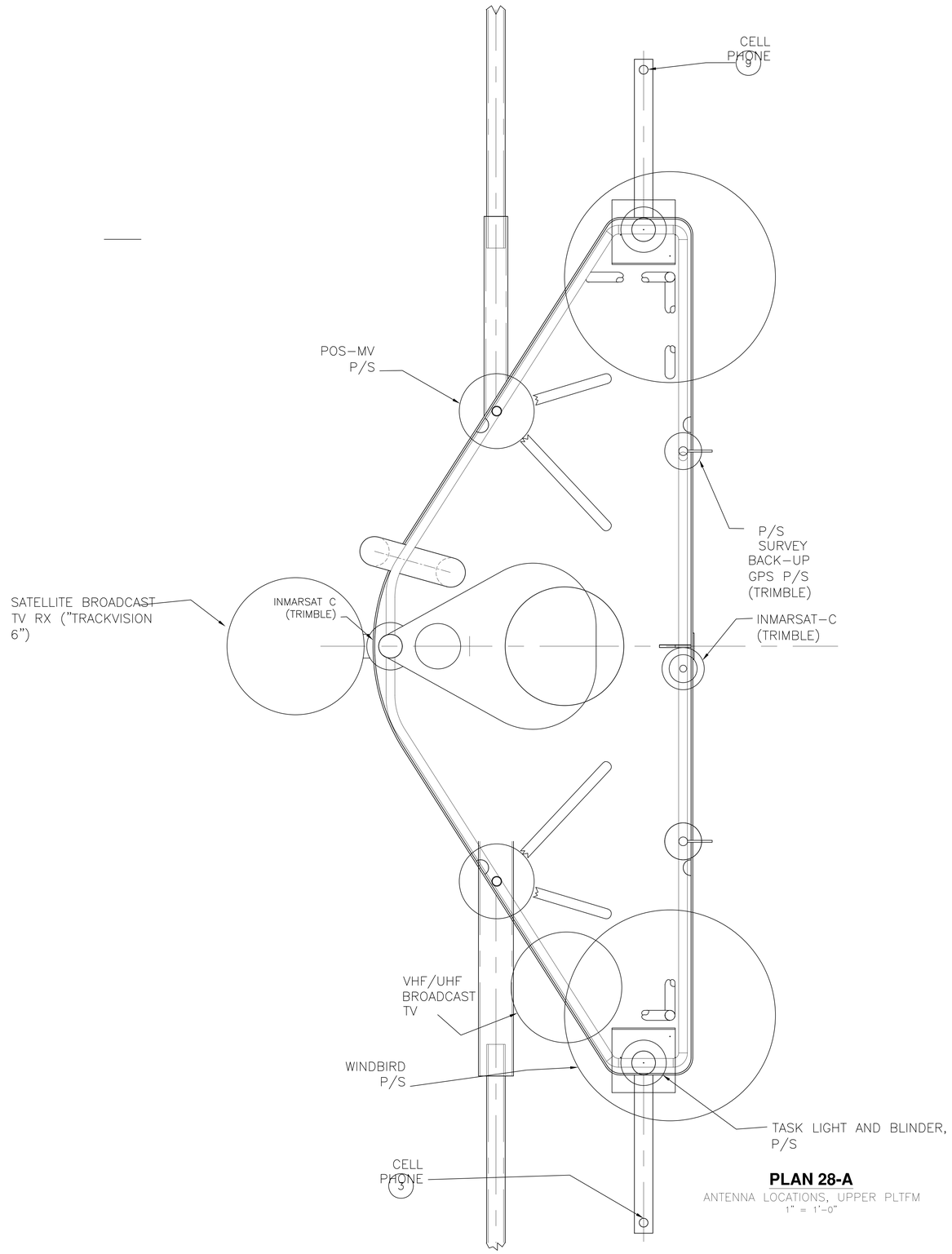
UPPER PLATFORM ANTENNA LOCATIONS LKG AFT

1" = 1'–0"



1"=1'–0"

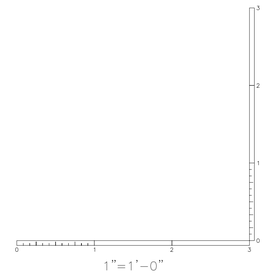
PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE D	CAGE CODE 0YLJ5	NOAA DRAWING NUMBER TJ–171–003	REV
	SCALE: AS SHOWN	CAD FILENAME TJ-171-003	SHT 3 OF 7	



PLAN 28-A

ANTENNA LOCATIONS, UPPER PLTFM

1" = 1'-0"



PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
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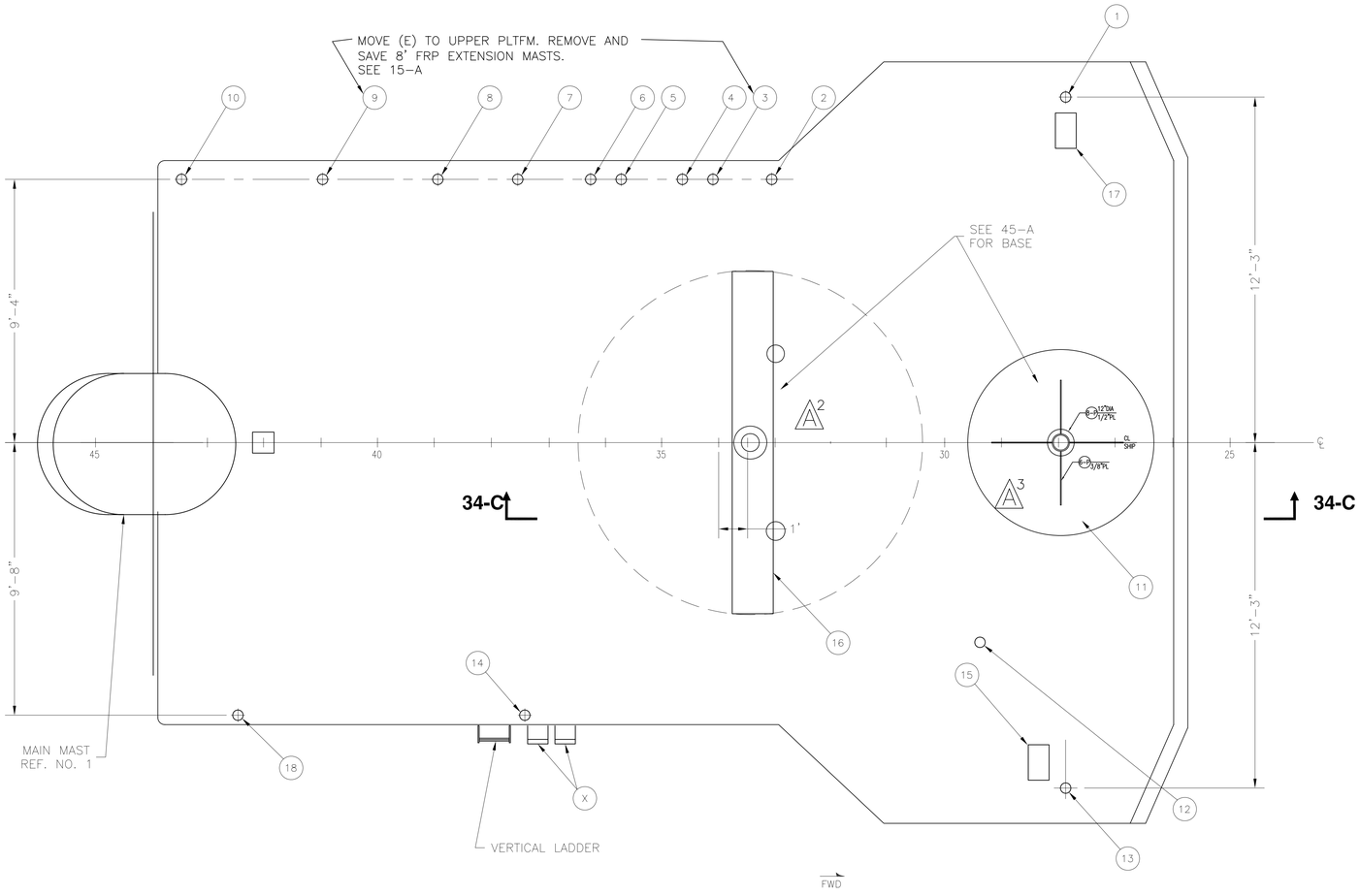
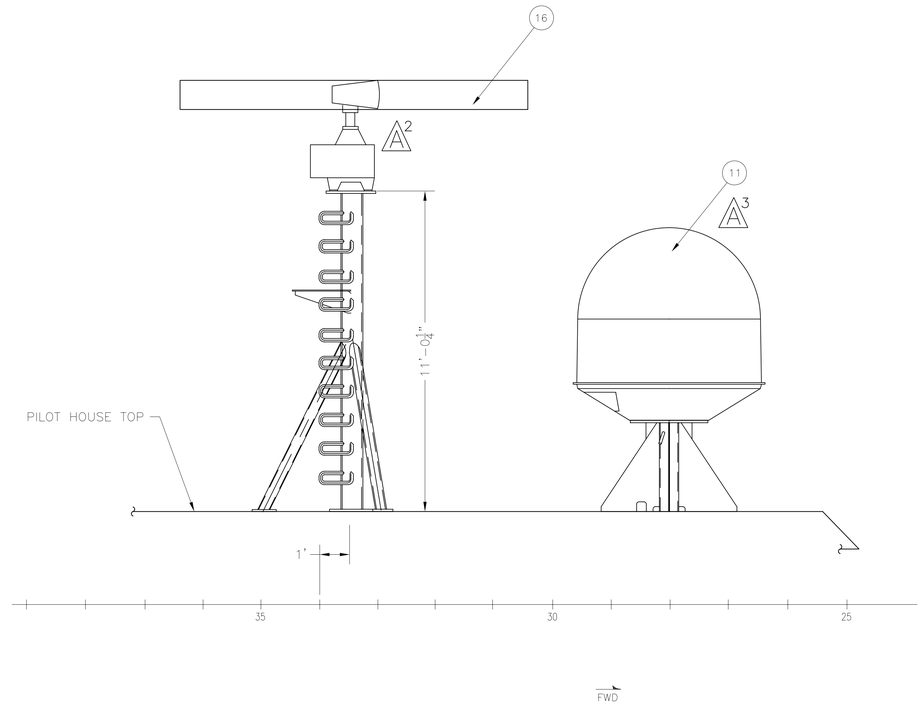
	SCALE: AS SHOWN	CAD FILENAME TJ-171-003	SHT 4 OF 7	



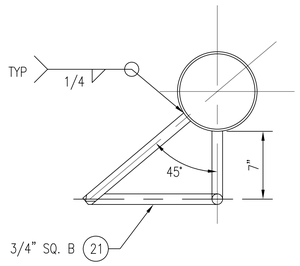
PLAN VIEW 38-C
TOP OF PILOT HOUSE
SCALE: 3 IN = 1 FT



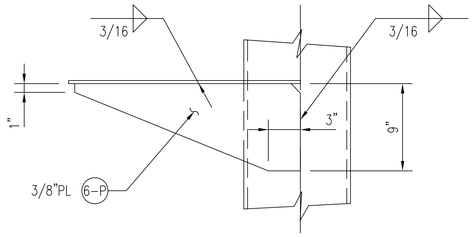
SECTION 34-C
TOP OF PILOT HOUSE
SCALE: 3 IN = 1 FT

3/8"=1'-0"

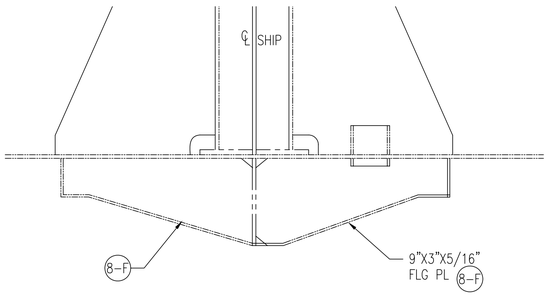
PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE D	CAGE CODE 0YLJ5	NOAA DRAWING NUMBER TJ-171-003	REV A
	SCALE: AS SHOWN	CAD FILENAME TJ-171-003	SHT 5 OF 7	



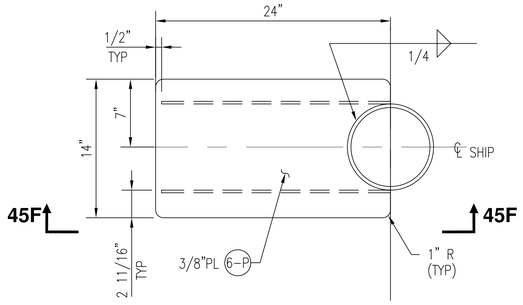
PLAN VIEW 48F (53D)
TYPICAL LADDER RUNG (10 REQ'D)
SCALE: NTS



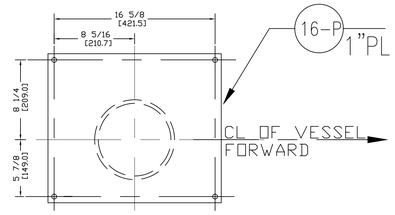
ELEVATION VIEW 45F
PLATFORM BRACKET (2 REQ'D)
SCALE: NTS



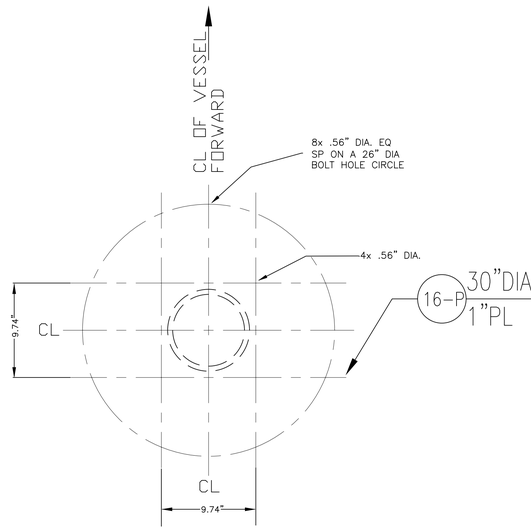
△ **SECTION VIEW 48D** (55D)
AT 12" FWD FRAME 34 LKG FWD
SCALE: NTS



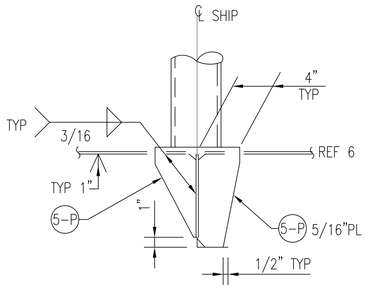
PLAN VIEW 45D (53D)
PLATFORM
SCALE: NTS



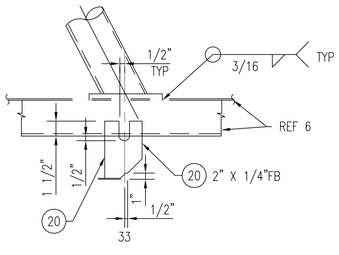
△2 **PLAN VIEW 43D**
X-BAND MOUNTING PLATE
SCALE: NTS



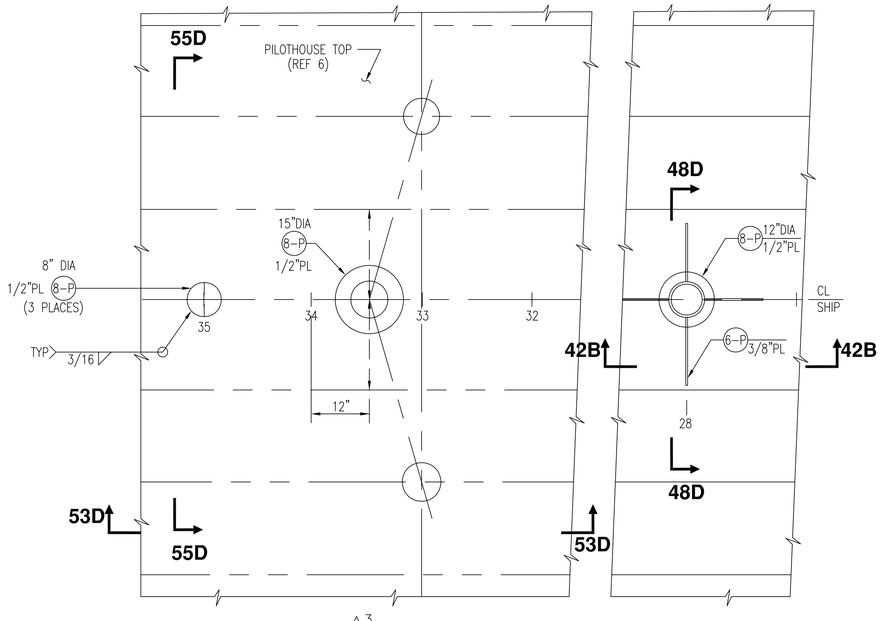
△3 **PLAN VIEW 42D**
MOUNTING PLATE
SCALE: NTS



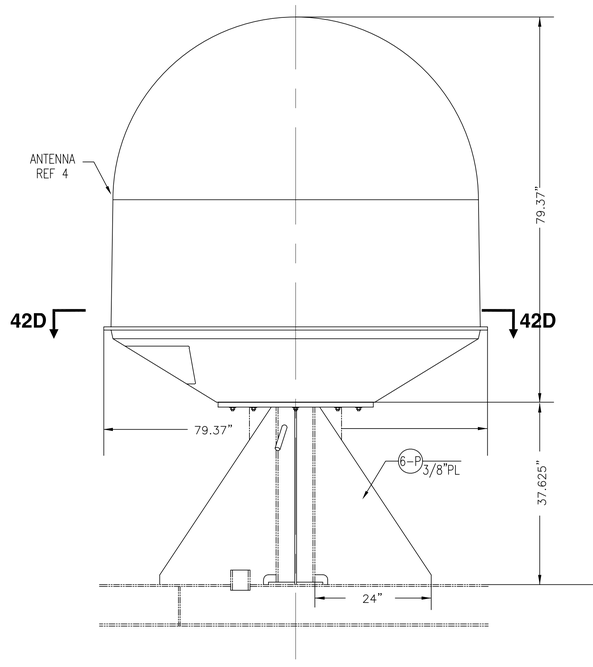
SECTION VIEW 48B (55D)
AT FRAME 35 LKG FWD
SCALE: NTS



ELEVATION VIEW 48A (55D)
STBD SIDE SHOWN LKG TO PORT (PORT SIM & OPP)
SCALE: NTS



△3 **PLAN VIEW 45A**
BASE PLATES AND UNDERDECK STRUCTURE
SCALE: NTS



△3 **SECTION VIEW 42B**
STBD LKG PORT
SCALE: NTS

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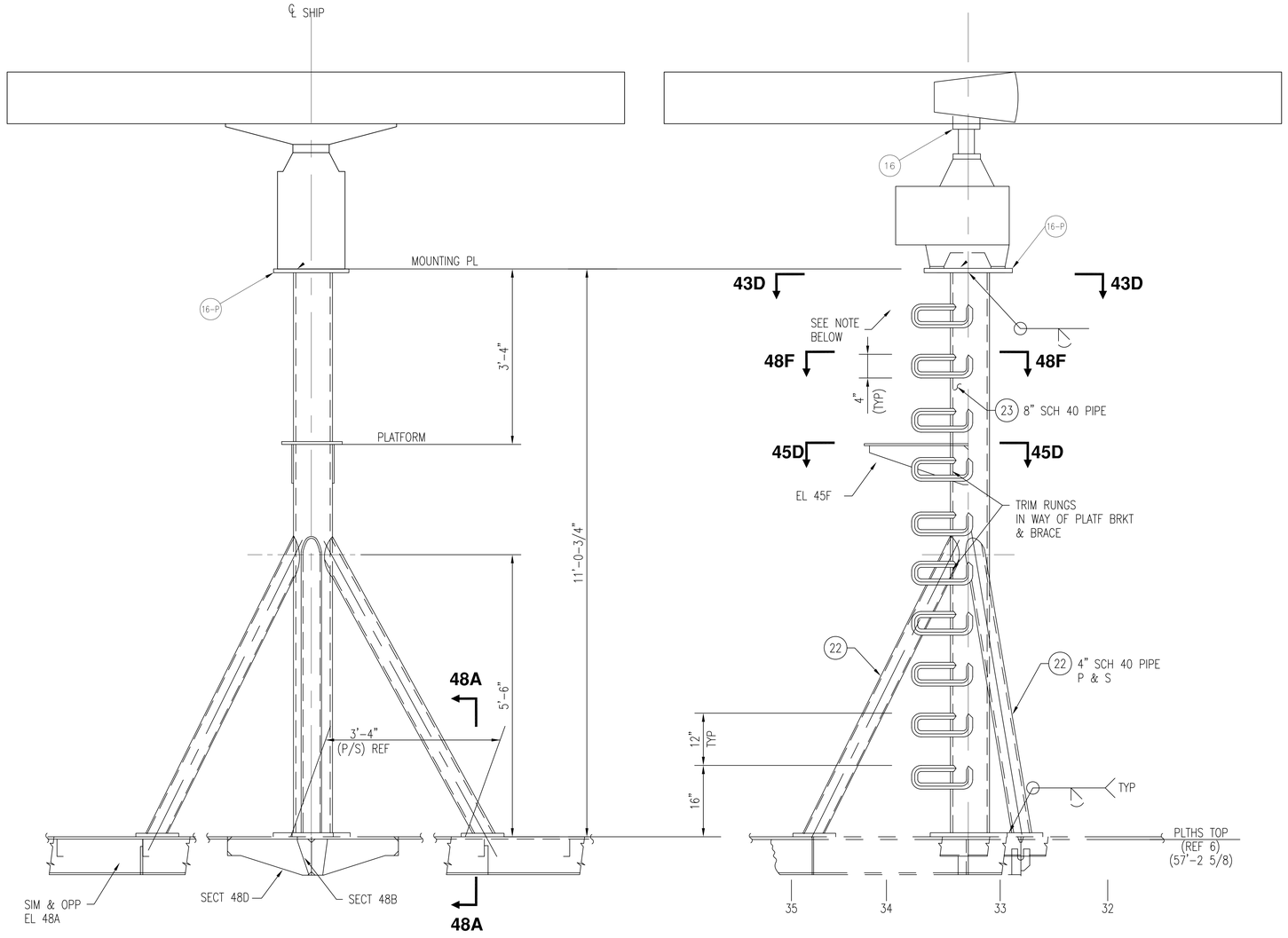
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-171-003	A
SCALE: AS SHOWN	CAD FILENAME TJ-171-003		SHT 6 OF 7



A2 **SECTION VIEW 55D**
LKG FWD (LADDER RUNGS NOT SHOWN)
SCALE: NTS

A2 **PLAN VIEW 53D**
STBD LKG TO PORT
SCALE: NTS

NOTE: TOP LADDER RUNG TO BE USED TO SECURE SAFETY HARNESS DURING OPERATIONS

PREPARED BY:
Seaworthy Systems, Inc.
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TEL: (860) 767-9061

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-171-003	A
SCALE: AS SHOWN	CAD FILENAME TJ-171-003	SHT 7 OF 7	